

**Amendments to the Claims**

This listing of claims will replace all prior versions and listings of claims in the above-identified application.

**Listing of Claims**

1. (Original) An apparatus comprising:  
a first circuit configured to receive first data, wherein the first circuit is configured to translate the first data into PCI formatted data;  
a PCI data bus;  
a second circuit coupled to the first circuit via the PCI data bus, wherein the second circuit is configured to receive the PCI formatted data from the first circuit via the PCI data bus, wherein the second circuit is configured to translate the PCI formatted data received from the first circuit into PCI-Express formatted data;  
wherein the PCI data bus is configured to transmit data between only the first and second circuits.
2. (Original) The apparatus of claim 1 further comprising:  
a PCI-Express data bus;  
a second PCI data bus;  
a third circuit configured to receive third data, wherein the third circuit is configured to translate the third data into PCI formatted data;  
a fourth circuit coupled to the third circuit via the second PCI data bus and coupled to the second circuit via the PCI-Express data bus, wherein the fourth circuit is configured to receive the PCI formatted data from the third circuit via the second PCI data bus, wherein the fourth circuit is configured to translate the PCI formatted data received from the third circuit into PCI-Express formatted data;  
wherein the second PCI data bus is configured to transmit data between only the third and forth circuits.

3. (Original) The apparatus of claim 1 further comprising:  
a PCI-Express data bus coupled to the second circuit;  
a translator circuit coupled to the second circuit via the PCI-Express data bus.
4. (Previously Presented) The apparatus of claim 1 wherein the first circuit, the second circuit, and the PCI data bus are integrally formed on one semiconductor substrate.
5. (Original) The apparatus of claim 1 wherein the first and second circuits are formed on first and second semiconductor substrates, respectively, wherein the PCI data bus is formed on a printed circuit board.
6. (Original) An apparatus comprising:  
a PCI data bus;  
a first circuit coupled to the PCI data bus and configured to receive first data, wherein the first circuit is configured to process the first data for subsequent transmission over the PCI data bus;  
a second circuit coupled to the first circuit via the PCI data bus, wherein the second circuit is configured to receive second data from the first circuit via the PCI data bus, wherein the second circuit is configured to process the second data for subsequent transmission over a PCI-Express bus;  
wherein the PCI data bus is configured to transmit data between only the first and second circuits.

7. (Original) The apparatus of claim 6 further comprising:  
the PCI-Express data bus;  
a second PCI data bus;  
a third circuit coupled to the second PCI data bus and configured to receive third data,  
wherein the third circuit is configured to process the third data for subsequent  
transmission over the second PCI data bus;  
a fourth circuit coupled to the third circuit via the second PCI data bus, wherein the  
fourth circuit is configured to receive fourth data from the third circuit via the  
second PCI data bus, wherein the fourth circuit is configured to process the third  
data for subsequent transmission over the PCI-Express bus;  
wherein the second PCI data bus is configured to transmit data between only the third and  
fourth circuits.
8. (Original) The apparatus of claim 6 further comprising:  
the PCI-Express data bus coupled to the second circuit;  
a translator circuit coupled to the second circuit via the PCI-Express data bus.
9. (Previously Presented) The apparatus of claim 6 wherein the first circuit, the  
second circuit, and the PCI data bus are integrally formed on one semiconductor substrate.
10. (Original) The apparatus of claim 6 wherein the first and second circuits are  
formed on first and second semiconductor substrates, respectively, wherein the PCI data bus is  
formed on a printed circuit board.

11. (Original) A system comprising:

a first pair of circuits;

a second pair of circuits;

a first PCI data bus, wherein the first PCI data bus transmits data between the first pair of circuits;

a second PCI data bus, wherein the second PCI data bus transmits data between the second pair of circuits;

first and second PCI-Express data buses coupled to one circuit of the first pair and one circuit of the second pair, respectively.

12. (Original) The system of claim 11 wherein the first pair of circuits and the first PCI data bus are integrally formed on one semiconductor substrate.

13. (Original) The system of claim 11 wherein the first pair of circuits are formed on respective semiconductor substrates, and wherein the PCI data bus is formed on a printed circuit board.

14. (Original) The system of claim 11 wherein the first PCI data bus transmits data only between the first pair of circuits, and wherein the second PCI data bus transmits data only between the second pair of circuits.

15. (Currently Amended) An integrated circuit comprising:

a PCI data bus formed on a substrate;

a first sub-circuit formed on the substrate;

a second sub-circuit formed on the substrate, wherein the sub-second circuit is configured to transmit data to a PCI-Express bus;

wherein the PCI data bus transmits data only between the first and second sub-circuits;

wherein the PCI data bus, the first sub-circuit, and the second sub-circuit are integrally formed on the substrate.

16. (Previously Presented) The apparatus of claim 1 the wherein the PCI data bus couples only the first and second circuits.

17. (Previously Presented) The apparatus of claim 6 the wherein the PCI data bus couples only the first and second circuits.

18. (Previously Presented) The integrated circuit of claim 15 the wherein the PCI data bus couples only the first and second circuits.

19. (New) An apparatus comprising:

a core circuit;

a data bus;

a first circuit coupled to the core circuit via the data bus and configured to receive first data from the core circuit, wherein the first circuit is configured to translate the first data into PCI formatted data;

a PCI data bus;

a second circuit coupled to the first circuit via the PCI data bus, wherein the second circuit is configured to receive the PCI formatted data from the first, wherein the second circuit is configured to translate the PCI formatted data received from the first circuit into PCI-Express formatted data;

wherein the core circuit, first circuit, and second circuit comprise the same PCI-Express device.